

CURRICULUM VITAE

NAME

Ode, Paul James

ADDRESS

Bioagricultural Sciences and Pest Management
College of Agricultural Sciences

Plant Sciences
Campus Delivery 1177

PHONE

(970) 491-4127

EDUCATION

1994 Ph D, Univ Wisconsin - Madison

1990 MS, Univ Wisconsin - Madison

1986 BA, Earlham College

OTHER POSITIONS

July 1, 2011 - Present Associate Professor, Colorado State University.

August 16, 2008 - June 30, 2011 Assistant Professor, Colorado State University.

November 1, 2002 - August 15, 2008 Assistant Professor, North Dakota State University.

1999 - 2002 Entomologist (GS-12), USDA-ARS, Beneficial Insects Introduction Laboratory.

1998 - 1999 Postdoctoral Research Associate, Texas A&M University.

1997 - 1998 NSF-NATO Postdoctoral Fellow, Leiden University (The Netherlands).

1996 - 1997 Maytag Postdoctoral Fellow, Arizona State University.

1994 - 1996 Postdoctoral Fellow - USDA Postdoctoral Area Award, University of California - Davis.

PUBLISHED WORKS

Books

Ode, P. J. (1994). *Female-biased sex allocation in the outcrossing parasitic wasp, Bracon hebetor Say (Hymenoptera: Braconidae)*. University of Wisconsin-Madison.

Refereed Journal Articles

Brood-mate avoidance in the parasitic wasp *Bracon hebetor* Say. *Animal Behavior*, 49, 1239-1248.

Chromosome number of the polyembryonic parasitoid *Copidosoma floridanum* (Ashmead) (Hymenoptera:

- Encyrtidae). *Annals of the Entomological Society of America*, 83, 834-837.
- Competition and brood reduction. *Behavioral Ecology*, 20, 403-409.
- Complementary sex determination in hymenopteran parasitoids and its implications for biological control. *Entomologia Sinica*, 10, 81-93.
- Complementary sex determination in the parasitoid wasp *Cotesia vestalis* (C-plutellae). *Journal of Evolutionary Biology*, 20, 340-348.
- Constrained oviposition and female-biased sex allocation in a parasitic wasp. *Oecologia*, 109, 547-555.
- Cyclodiene insecticide resistance in *Drosophila melanogaster* (Meigen) is associated with a temperature-sensitive phenotype. *Pesticide Biochemistry and Physiology*, 46, 73-77.
- Differential dispersal and female-biased sex allocation in a parasitic wasp. *Ecological Entomology*, 23, 314-318.
- Diploid males sire triploid daughters and sons in the parasitoid wasp *Cotesia vestalis*. *Heredity*, 99, 288-294.
- Direct comparison of PCR based monitoring for cyclodiene resistance in *Drosophila* populations with insecticide bioassay. *Pesticide Biochemistry and Physiology*, 48, 229-233.
- Effects of resource abundance on sex allocation by queens and workers in the desert seed-harvesting ant, *Messor pergandei*. *Behavioral Ecology and Sociobiology*, 51, 548-556.
- Entomophagous insects: progress in evolutionary and applied ecology. *Trends in Ecology and Evolution*, 10, 96-97.
- Environmental and genetic determinants of ovicide in the parasitic wasp *Bracon hebetor*. *Behavioral Ecology*, 8, 647-654.
- Evaluating biological control of fire ants using phorid flies. *Biological Control*, 30, 566-583.
- Experimental support for multiple-locus complementary sex determination in the parasitoid *Cotesia vestalis*. *Genetics*, 180, 1525-1535.
- Factors influencing brood sex ratios in polyembryonic Hymenoptera. *Oecologia*, 93, 343-348.
- Feeding behavior analysis of the soybean aphid (Hemiptera). *Journal of Economic Entomology*, 103, 648-653.
- Furanocoumarins and their detoxification in a tri-trophic interaction. *Chemoecology*, 16, 45-50.
- Generalist and specialist host-parasitoid associations respond differently to wild parsnip (*Pastinaca sativa*) defensive chemistry. *Ecological Entomology* DOI: 10.1111/j.1365-2311.2010.36.52-61.
- Host plant, host plant chemistry and the polyembryonic parasitoid *Copidosoma sosares*. *Oikos*, 104, 388-400.
- Host-searching and mating in an outbreeding parasitoid wasp. *Ecological Entomology*, 21, 27-33.
- Host-size dependent sex ratio theory and improving mass-reared parasitoid sex ratios. *Biological Control*, 24, 31-41.
- Hyperparasitism by *Ablerus clisiocampae* Ashmead (Hymenoptera: Aphelinidae). *Proceedings of the*

Entomological Society of Washington, 101, 640-644.

Impact of Rag1 aphid resistant soybeans on *Binodoxys communis* (Hymenoptera: Braconidae), a parasitoid of soybean aphid (Hemiptera: Aphididae). *Environmental Entomology, 41, 282-288.*

New records of *Copidosoma sosares* (Walker) (Hymenoptera). *Journal of the Kansas Entomological Society, 80, 309-318.*

Oviposition vs offspring fitness in *Aphidius colemani* parasitizing different aphid species. *Entomologia Experimentalis et Applicata, 115, 303-310.*

Parasitoid clutch size and irreversible evolution. *Ecology Letters, 1, 139-141.*

PCR based monitoring of specific *Drosophila* (Diptera: Drosophilidae) cyclodiene resistance alleles in the presence and absence of selection. *Bulletin of Entomological Research, 85, 9-May.*

Plant chemistry and natural enemy fitness. *Annual Review of Entomology, 51, 163-185.*

Population structure, mating system, and sex-determining allele diversity of the parasitoid wasp *Habrobracon hebetor*. *Heredity, 91, 373-381.*

Progeny and sex allocation decisions of the polyembryonic wasp *Copidosoma floridanum*. *Journal of Animal Ecology, 64, 213-224.*

Quantifying ecology: constructing life history tables. *American Biology Teacher, 71, 295-299.*

Sex allocation and sexual asymmetries in intra-brood competition in the parasitic wasp *Bracon hebetor*. *Journal of Animal Ecology, 65, 690-700.*

Sex allocation and the evolutionary transitions between solitary and gregarious parasitoid development. *American Naturalist, 152, 759-763.*

Sibling rivalry and brood sex ratios in polyembryonic wasps. *Nature, 360, 254-256.*

Single-locus complementary sex determination absent in *Heterospilus prosopidis* (Hymenoptera: Braconidae). *Heredity, 95, 228-234.*

Sunflower stem weevil and its larval parasitoids in native sunflowers: is parasitoid abundance and diversity greater in the US Southwest? *Environmental Entomology doi: 10.1603/EN10068, 40, 15-22.*

Tritrophic effects of xanthotoxin on the polyembryonic parasitoid *Copidosoma sosares* (Hymenoptera). *Journal of Chemical Ecology, 34, 783-790.*

Variable sex ratio shifts and ovicide in an outbreeding parasitic wasp. *Animal Behaviour, 49, 589-600.*

Ode, P. J., Harvey, J., Reichelt, M., Gershenzon, J., Gols, R. (in press). Differential induction of plant chemical defenses by parasitized and unparasitized herbivores: consequences for reciprocal, multitrophic interactions. *Oikos.*

Jessup, J., Ode, P. J., Balgopal, M. M. (in press). Competition for limiting resources: quantitative reasoning in evolutionary ecology. *American Biology Teacher.*

Chirumamilla, A., Knodel, J. J., Charlet, L. D., Hulke, B. S., Foster, S. P., Ode, P. J. (2014). Ovipositional

preference and larval performance of the banded sunflower moth (Lepidoptera: Cochylidae) and its larval parasitoids on resistant and susceptible lines of sunflower (Asterales: Asteraceae). *Environmental Entomology*, 42. dx.doi.org/10.1603/EN13157

Ode, P. J., Johnson, S. N., Moore, B. D. (2014). Atmospheric change and induced plant secondary metabolites - are we reshaping the building blocks of multi-trophic interactions? *Current Opinion in Insect Science*, 5, 57-65.

Ode, P. J., Crompton, D. S. (2013). Compatibility of aphid resistance in soybean and biological control by the parasitoid *Aphidius colemani* (Hymenoptera: Braconidae). *Biological Control* doi:10.1016/j.biocontrol.2012.12.001, 64, 255-262.

Balgopal, M. M., Ode, P. (2009). Quantitative ecology: Constructing life history tables. *The American Biology Teacher*, 71(5), 295-299.

Hardy, I. C., Ode, P. J. (2007). Why biocontrol practitioners should be more interested in parasitoid sex ratios. *Biocontrol News and Information*, 28, 49-51.

Non-Refereed Journal Articles

Hardy, I. C., Ode, P. J., Siva-Jothy, M. T. MATING BEHAVIOUR 4. *Springer*.

The evolution and adaptive significance of sex size dimorphism in the polyembryonic parasitoid, *Copidosoma floridanum*. *American Zoologist*, 39, 13A.

Ode, P. J., Johnson, S. N., Moore, B. D. (2014). Atmospheric change and induced plant secondary metabolites— are we reshaping the building blocks of multi-trophic interactions? *Current Opinion in Insect Science*, 5, 57–65.

Chirumamilla, A., Knodel, J. J., Charlet, L. D., Hulke, B. S., Foster, S. P., Ode, P. J. (2014). Ovipositional preference and larval performance of the banded sunflower moth (Lepidoptera: Tortricidae) and its larval parasitoids on resistant and susceptible lines of sunflower (Asterales: Asteraceae). *Environmental entomology*, 43(1), 58–68.

Ode, P., Crompton, D. (2013). Compatibility of aphid resistance in soybean and biological control by the parasitoid *Aphidius colemani* (Hymenoptera: Braconidae). *Biological Control*, 64(3), 255–262.

Ghising, K., Harmon, J. P., Beauzay, P. B., Prischmann-Voldseth, D. A., Helms, T. C., Ode, P. J., Knodel, J. J. (2012). Impact of Rag1 aphid resistant soybeans on *Binodoxys communis* (Hymenoptera: Braconidae), a parasitoid of soybean aphid (Hemiptera: Aphididae). *Environmental entomology*, 41(2), 282–288.

Lampert, E. C., Zangerl, A. R., Berenbaum, M. R., Ode, P. J. (2011). Generalist and specialist host–parasitoid associations respond differently to wild parsnip (*Pastinaca sativa*) defensive chemistry. *Ecological Entomology*, 36(1), 52–61.

Ode, P. J., Charlet, L. D., Seiler, G. J. (2011). Sunflower stem weevil and its larval parasitoids in native sunflowers: is parasitoid abundance and diversity greater in the US Southwest? *Environmental entomology*, 40(1), 15–22.

Crompton, D., Ode, P. (2010). Feeding behavior analysis of the soybean aphid (Hemiptera: Aphididae) on resistant soybean ‘Dowling’. *Journal of economic entomology*, 103(3), 648–653.

Pexton, J. J., de Boer, J. G., Heimpel, G. E., Vet, L. E., Whitfield, J. B., Ode, P. J. (2009). Competition and brood

- reduction: testing alternative models of clutch-size evolution in parasitoids. *Behavioral Ecology*, 20(2), 403–409.
- Balgopal, M. M., Ode, P. J. (2009). Quantifying Ecology: Constructing Life History Tables. *The American Biology Teacher*, 71(5), 295–299.
- de Boer, J. G., Ode, P. J., Rendahl, A. K., Vet, L. E., Whitfield, J. B., Heimpel, G. E. (2008). Experimental support for multiple-locus complementary sex determination in the parasitoid *Cotesia vestalis*. *Genetics*, 180(3), 1525–1535.
- Ode, P. J., Hardy, I. C. (2008). Parasitoid sex ratios and biological control. *Behavioural ecology of insect parasitoids—from theoretical approaches to field applications* (eds E. Wajnberg, C. Bernstein & J. van Alphen), 253–291.
- Lampert, E. C., Zangerl, A. R., Berenbaum, M. R., Ode, P. J. (2008). Tritrophic effects of xanthotoxin on the polyembryonic parasitoid *Copidosoma sosares* (Hymenoptera: Encyrtidae). *Journal of chemical ecology*, 34(6), 783–790.
- Hopper, K. R., Acheampong, S., Alleyne, M., Bancroft, J., Beck, M., Chantos, J. M., Chow, A., Colazza, S., Coll, M., Consoli, F., others (2007). *Journal of Insect Science*, 7(1), 16.
- Ode, P. J. (2007). Cabbage, cabbage loopers, and *Copidosoma*: Multi-trophic effects of plant quality on a generalist herbivore and its specialist parasitoid. *The 2007 ESA Annual Meeting, December 9-12, 2007*.
- De Boer, J., Ode, P., Vet, L., Whitfield, J., Heimpel, G. (2007). Complementary sex determination in the parasitoid wasp *Cotesia vestalis* (C. plutellae). *Journal of Evolutionary Biology*, 20(1), 340–348.
- De Boer, J., Ode, P., Vet, L., Whitfield, J., Heimpel, G. (2007). Diploid males sire triploid daughters and sons in the parasitoid wasp *Cotesia vestalis*. *Heredity*, 99(3), 288–294.
- Crompton, D. S., Ode, P. J. (2007). FEEDING BEHAVIOR ANALYSIS OF SOYBEAN APHID (HOMOPTERA. *Soybean Aphid, Aphis Glycines Matsumura (Homoptera: Aphididae): A New Pest in the Red River Valley of the North*, 57.
- de Boer, J. G., Ode, P. J., Vet, L. E., Heimpel, G. (2007). Multiple locus complementary sex determination in the parasitoid wasp *Cotesia vestalis*. *Journal of Insect Science*, 7, 5–6.
- Carroll, M. J., Lampert, E. C., Berenbaum, M. R., Noyes, J. S., Ode, P. J. (2007). New Records of *Copidosoma sosares* (Walker)(Hymenoptera: Encyrtidae), a Parasitoid of the Parsnip Webworm (*Depressaria pastinacella* (Duponchel))(Lepidoptera: Elachistidae), in Western North America. *Journal of the Kansas Entomological Society*, 80(4), 309–318.
- Ode, P. J. (2007). NEW RECORDS OF COPIDOSOMA SOSARES (WALKER, 1837). *Tritrophic Effects of Furanocoumarins on Development and Life History of Polyembryonic Parasitoids*, 80.
- Crompton, D. S., Ode, P. J. (2007). OVERWINTERING POTENTIAL AND COLONIZATION DYNAMICS OF THE. *Soybean Aphid, Aphis Glycines Matsumura (Homoptera: Aphididae): A New Pest in the Red River Valley of the North*, 32.
- Lampert, E. C., Zangerl, A. R., Berenbaum, M. R., Ode, P. J. (2007). TRITROPHIC EFFECTS OF XANTHOTOXIN ON THE POLYEMBRYONIC. *Tritrophic Effects of Furanocoumarins on Development and Life History of Polyembryonic Parasitoids*, 32.

- Hardy, I., Ode, P. (2007). Why biocontrol practitioners should be more interested in parasitoid sex ratios. *Biocontrol News and Information*, 28, 49–51.
- McGovern, J. L., Zangerl, A. R., Ode, P. J., Berenbaum, M. R. (2006). Furanocoumarins and their detoxification in a tri-trophic interaction. *Chemoecology*, 16(1), 45–50.
- Ode, P. J. (2006). Plant chemistry and natural enemy fitness: effects on herbivore and natural enemy interactions. *Annu. Rev. Entomol.*, 51, 163–185.
- Ode, P. J. (2005). Host plant chemistry in native and introduced systems: effects of furanocoumarins on the parasitoid *Copidosoma sosares*. *The 2005 ESA Annual Meeting and Exhibition*.
- Ode, P. J., Hopper, K. R., Coll, M. (2005). Oviposition vs. offspring fitness in *Aphidius colemani* parasitizing different aphid species. *Entomologia experimentalis et applicata*, 115(2), 303–310.
- Wu, Z., Hopper, K., Ode, P., Fuester, R., Tuda, M., Heimpel, G. (2005). Single-locus complementary sex determination absent in *Heterospilus prosopidis* (Hymenoptera: Braconidae). *Heredity*, 95(3), 228–234.
- Mottern, J. L., Heinz, K. M., Ode, P. J. (2004). Evaluating biological control of fire ants using phorid flies: effects on competitive interactions. *Biological Control*, 30(3), 566–583.
- J Ode, P., R Berenbaum, M., R Zangerl, A., CW Hardy, I. (2004). Host plant, host plant chemistry and the polyembryonic parasitoid *Copidosoma sosares*: indirect effects in a tritrophic interaction. *Oikos*, 104(2), 388–400.
- Ode, P. J. (2004). Variation in sex allocation decisions and parasitoid mass-rearing programs. *The 2004 ESA Annual Meeting and Exhibition*.
- Aebi, A., Amalin, D. M., Andow, D., Armer, C. A., Asplen, M. K., Bellamy, D. E., Benrey, B., Boivin, G., Buffington, M. L., Byrne, D. N., others (2003). *Journal of Insect Science*, 3(1), 33.
- Zhishan, W., Hopper, K. R., Ode, P. J., Fuester, R. W., Jia-hua, C., Heimpel, G. E. (2003). Complementary sex determination in hymenopteran parasitoids and its implications for biological control. *Insect Science*, 10(2), 81–93.
- Antolin, M., Ode, P., Heimpel, G., O'Hara, R., Strand, M. (2003). Population structure, mating system, and sex-determining allele diversity of the parasitoid wasp *Habrobracon hebetor*. *Heredity*, 91(4), 373–381.
- Ode, P. J., Hopper, K. R., Heimpel, G. (2002). Complementary sex determination in *Aphidius colemani*. *The 2002 ESA Annual Meeting and Exhibition*.
- Ode, P. J., Heinz, K. M. (2002). Host-size-dependent sex ratio theory and improving mass-reared parasitoid sex ratios. *Biological Control*, 24(1), 31–41.
- Fuester, R. W., Swan, K. S., Taylor, P. B., Hopper, K. R., Ode, P. J., others (2002). Male-biased sex ratios in laboratory rearings of gypsy moth parasitoids. *Interagency Research Forum on Gypsy Moth and Other Invasive Species 2002*, 24.
- Ode, P. J., Rissing, S. W. (2002). Resource abundance and sex allocation by queen and workers in the harvester ant, *Messor pergandei*. *Behavioral ecology and sociobiology*, 51(6), 548–556.
- Ode, P. J., Hunter, M. S. (2002). Sex ratios of parasitic Hymenoptera with unusual life-histories. *Sex ratios: concepts and research methods*. Cambridge University Press, Cambridge, 218–234.

- Ode, P. J., Hopper, K. R., Coll, M. (2001). Host range differences among populations of the aphid parasitoid *Aphidius colemani*.
- Kattari, D., Heimpel, G., Ode, P., Rosenheim, J. (1999). Hyperparasitism by *Ablerus clisiocampae* Ashmead (Hymenoptera: Aphelinidae). *Proceedings of the Entomological Society of America*, 101, 640–644.
- Ode, P. J., ANTOLIN, M., STRAND, M. (1998). Differential dispersal and female-biased sex allocation in a parasitic wasp. *Ecological Entomology*, 23(3), 314–318.
- Mayhew, P., Ode, P., Hardy, I., Rosenheim, J. (1998). Parasitoid clutch size and irreversible evolution. *Ecology Letters*, 1(3), 139–141.
- Ode, P. J., Rosenheim, J. A. (1998). Sex allocation and the evolutionary transition between solitary and gregarious parasitoid development. *The American Naturalist*, 152(5), 757–761.
- Ode, P. J., Antolin, M. F., Strand, M. R. (1997). Constrained oviposition and female-biased sex allocation in a parasitic wasp. *Oecologia*, 109(4), 547–555.
- Takasu, K., Ode, P. J., Antolin, M. F., Strand, M. R. (1997). Environmental and genetic determinants of ovicide in parasitic wasp *Bracon hebetor*. *Behavioral Ecology*, 8(6), 647–654.
- Guertin, D., Ode, P., Strand, M., Antolin, M. (1996). Host-searching and mating in an outbreeding parasitoid wasp. *Ecological Entomology*, 21(1), 27–33.
- Ode, P. J., Antolin, M. F., Strand, M. R. (1996). Sex allocation and sexual asymmetries in intra-brood competition in the parasitic wasp *Bracon hebetor*. *Journal of Animal Ecology*, 690–700.
- Ode, P. J., ANTOLIN, M. F., STRAND, M. R. (1995). Brood-mate avoidance in the parasitic wasp *Bracon hebetor* Say. *Animal Behaviour*, 49(5), 1239–1248.
- Hardy, I. C., van Alphen, J. J., Heimpel, G. E., Ode, P. J. (1995). Entomophagous insects: progress in evolutionary and applied ecology. *Trends in ecology & evolution*, 10(3), 96–97.
- Aronstein, K., Ode, P. J., French-Constant, R. (1995). PCR based monitoring of specific *Drosophila* (Diptera: Drosophilidae) cyclodiene resistance alleles in the presence and absence of selection. *Bulletin of Entomological Research*, 85(1), 5–9.
- Ode, P. J., Strand, M. R. (1995). Progeny and sex allocation decisions of the polyembryonic wasp *Copidosoma floridanum*. *Journal of Animal Ecology*, 213–224.
- Antolin, M. F., Ode, P. J., Strand, M. R. (1995). Variable sex ratios and ovicide in an outbreeding parasitic wasp. *Animal Behaviour*, 49(3), 589–600.
- Aronstein, K., Ode, P. J., French-Constant, R. (1994). Direct comparison of PCR based monitoring for cyclodiene resistance in *Drosophila* populations with insecticide bioassay. *Pesticide Biochemistry and Physiology*, 48, 229–233.
- Aronstein, K., Ode, P. J., French-Constant, R. (1994). French-Constant, R. (1995) *Immunocytochem.*
- French-Constant, R., JC, S., Ode, P. (1993). Cyclodiene insecticide resistance in *Drosophila melanogaster* (Meigen) is associated with a temperature-sensitive phenotype. *Pesticide Biochemistry and Physiology*, 46, 73–77.

Hardy, I. C., Ode, P. J., Strand, M. R. (1993). Factors influencing brood sex ratios in polyembryonic Hymenoptera. *Oecologia*, 93(3), 343–348.

Grbic, M., Ode, P. J., Strand, M. R. (1992). Sibling rivalry and brood sex ratios in polyembryonic wasps. *Nature Publishing Group*.

Strand, M., Ode, P. (1990). Chromosome number of the polyembryonic parasitoid *Copidosoma floridanum* (Hymenoptera: Encyrtidae). *Annals of the Entomological Society of America*, 83(4), 834–837.

Ward, G. L., Ode, P. J. (1983). Current Status of the Blue Wasp, *Chalybion zimmermanni* Dahlborn in Southeastern Indiana. *Proceedings of the Indiana Academy of Science*, 93, 229–230.

Non-Refereed Chapters in Books

Ode, P. (2013). Plant defences and parasitoid chemical ecology. *Chemical Ecology of Insect Parasitoids* (pp. 11–36). John Wiley & Sons.

Ode, P. J. (2013). Plant defenses and parasitoid chemical ecology. *Chemical Ecology of Insect Parasitoids*. John Wiley & Sons.

Hardy, I. C., Ode, P. J., Siva-Jothy, M. (2005). Mating systems. *Insects as Natural Enemies* (pp. 261–298). Springer.

Non-Refereed Proceedings or Transactions

Lampert, E., Ode, P. J. (2007). Battle of the sexes in the parasitoid *Copidosoma sosares*. *JOURNAL OF INSECT SCIENCE* (vol. 7, pp. 13–14).

Corley, L., Strand, M., Ode, P. (1999). The evolution and adaptive significance of sexual size dimorphism in the polyembryonic parasitoid, *Copidosoma floridanum*. *AMERICAN ZOOLOGIST* (5th ed., vol. 39, pp. 13A–13A).

Battle of the sexes in the parasitoid Copidosoma sosares (vol. 7, pp. 13-14). Journal of Insect Science.

Host range and host choice in the aphid parasitoid Aphidius colemani (20th Conference of the Entomological Society of Israel, Feb 11-12, 2003) (vol. 31). Phytoparasitica.

Multi-trophic effects of wild cabbage glucosinolates on a generalist herbivore and its specialist parasitoid. Ecological Society of America doi: 101890/20009annualmeeting.

Multiple locus complementary sex determination in the parasitoid wasp Cotesia vestalis (vol. 7, pp. 6-May). Journal of Insect Science.

Native sunflower in the central and northern Plains as sources for resistance and natural enemies of cultivated sunflower: banded sunflower moth and sunflower stem weevil. Proceedings of the 27th Sunflower Research Workshop, National Sunflower Association, Fargo, ND.

Tritrophic effects of host plant chemistry on the polyembryonic parasitoid Copidosoma sosares (XIIIth International Entomophagous Insects Workshop - July 27-31, 2003, Tucson, AZ) (vol. 5). Journal of Insect Science.

Book Review

Mating behaviour (pp. 219-260). Jervis M (ed) *Insects as Natural Enemies: a practical perspective* Springer, Dordrecht, The Netherlands.

Mating systems (pp. 261-298). Jervis M (ed) *Insects as Natural Enemies: a practical perspective* Springer, Dordrecht, The Netherlands.

Parasitoid sex ratios and biological control (pp. 253-291). Wajnberg E, Bernstein C, van Alphen J (eds) *Behavioral Ecology of Insect Parasitoids: from theoretical approaches to field applications* Blackwell Publishing, Oxford, UK.

(in press). *Plant defenses and chemical ecology*. Chapter 2 in É Wajnberg and S Colazza, editors *Chemical Ecology of Insect Parasitoids* Wiley-Blackwell, West Sussex, UK.

Sex ratios of parasitic Hymenoptera with unusual life histories (pp. 218-234). Hardy ICW (ed) *Sex Ratios: concepts and research methods* Cambridge University Press, Cambridge, UK.

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

November 18, 2015, "Plant defense chemistry effects on parasitoid size vs. number tradeoffs: females get smaller but males become fewer", Entomology 2015, Entomological Society of America, (Presenter) Ode, P. J.

November 18, 2015, "Theoretical support for balancing selection and reduced diploid male production in multiple-locus complementary sex determination", Entomology 2015, Entomological Society of America, (Presenter) Weis, J.

November 17, 2015, "Ovipositional preference of wheat stem sawflies, *Cephus cinctus*", Entomology 2015, Entomological Society of America, (Presenter) Altımisani, N.

November 16, 2015, "A glimpse of changes to come: effects of elevated CO₂ on a tri-trophic system", Entomology 2015, Entomological Society of America, (Presenter) Paul, R. L.

November 16, 2015, "Damaged goods: how *Cotesia glomerata* responds to hosts parasitized by its competitor, *C. rubecula*", Entomology 2015, Entomological Society of America, (Presenter) Vyas, D.

November 16, 2015, "Gall insects: plant mediated interactions impact insect preference and performance", Entomology 2015, Entomological Society of America, (Presenter) Barosh, T. A.

October 29, 2015, "Is the enemy of my enemy really my friend?: can parasitoids influence plant defense traits against herbivores?", Purdue University, (Presenter) Ode, P. J.

October 21, 2015, "Is the enemy of my enemy really my friend?: reciprocal interactions among wild cabbage, cabbage loopers, and *Copidosoma floridanum*", BSPM seminar series, CSU: BSPM, (Presenter) Ode, P. J.

October 6, 2015, "Changing trophic interactions in a changing climate", 4th International Entomophagous Insects Conference, International Entomophagous Insects Conference, peer-reviewed/refereed.

April 29, 2015, "Causes and consequences of competitive displacement in *Cotesia* parasitoids", NIFA Project Director Workshop, USDA AFRI Plant-Associated Insects and Nematodes Program, (Presenter) Ode, P. J.

March 24, 2015, "Constructing a database of biocontrol agents of insect pests", APHIS CPHST, (Presenter) Anderson, A. G.

November 19, 2014, "Are we getting better at this? An examination of biocontrol establishment and success rates through time.", 62nd Annual Meeting of the Entomological Society of America, (Presenter) Anderson, A., Portland, OR.

November 16, 2014, "The enemy of my enemy is not always my friend: wild cabbage is negatively affected by both herbivores and their parasitoids", 62nd Annual Meeting of the Entomological Society of America, (Presenter) Ode, P. J., Portland, OR.

November 16, 2014, "Tracing the invasion history of a parasitoid wasp in North America", 62nd Annual Meeting of the Entomological Society of America, (Presenter) Bowker, C. L., Portland, OR.

October 2014, "An assessment of US insect biological control introductions from 1979-2009: results from the USDA-ARS ROBO database.", W-3185 Annual Meeting, (Presenter) Anderson, A., Kauai, Hawaii, peer-reviewed/refereed.

August 2014, "Limited range expansion of an introduced parasitoid is not caused by a genetic bottleneck", 99th Annual Meeting of the Ecological Society of America, Ecological Society of America, (Presenter) Bowker, C. L., Sacramento, CA, peer-reviewed/refereed.

August 21, 2014, "Parasitism increases plant investment in chemical defences against herbivores", 15th International Symposium on Insect-Plant Interactions, University of Neuchâtel, Switzerland, (Presenter) Ode, P. J., University of Neuchâtel, peer-reviewed/refereed.

March 16, 2014, "Climate change and multitrophic interactions", University of Western Sydney, Hawkesbury Institute for the Environment, University of Western Sydney.

2013, "Bowker CL, Ode PJ, Black W, Berenbaum MR, Downie S. Tracing the invasion history of a parasitoid wasp in North America. 61st Annual Meeting of the Entomological Society of America, November 10-13".

2013, "Ode PJ, Zangerl A, Berenbaum MR. Synergistic, tritrophic effects of parsnip furanocoumarins on the specialist parasitoid *Copidosoma sosares*. 61st Annual Meeting of the Entomological Society of America, November 10-13".

2013, "Ode PJ. Trophic effects of plant secondary metabolite mixtures: defenses are not equal to the sum of their parts. Third International Entomophagous Insects Conference, Orford, Québec, Canada, 2-6 June 2013".

2012, "Cheryl Bowker, May Berenbaum, Paul Ode. Introduction history and patterns of spread of an introduced parasitoid. Ent Soc Am 60th Annual Meeting, Knoxville,

TN, Nov 11-14".

2012, "Paul Ode. Re-forming historic and novel trophic associations in invaded landscapes: parsnips, webworms, and parasitoids. Wageningen University, the Netherlands. August 2nd, 2012".

2011, "Ode PJ. Offspring size – number tradeoff responses to environmental stressors. Second International Entomophagous Insects Conference (keynote talk), Antibes, France".

2011, "Ode PJ. Reciprocal interactions across three trophic levels: re-formed and novel associations. (Department of Entomology) University of Illinois at Urbana-Champaign, Urbana, IL".

2010, "Boor Z, Balgopal MM, Ode PJ. Using insects to teach trophic interactions to high school students: measuring the effects of limiting resources on host and parasitoid fitness. 58th Annual Meeting of the Entomological Society of America, San Diego, CA".

2010, "Chirumamilla A, Charlet LD, Knodel JJ, Ode PJ, Foster SP. Elucidating the mechanisms of host plant resistance to the banded sunflower moth in selected sunflower accessions. 58th Annual Meeting of the Entomological Society of America, San Diego, CA".

2010, "Ode PJ, Lampert EC, Zangerl AR, Berenbaum MR. Generalist and specialist host-parasitoid associations respond differently to wild parsnip (*Pastinaca sativa*) defensive chemistry. 58th Annual Meeting of the Entomological Society of America, San Diego, CA".

2010, "Ode PJ. Changes in multi-trophic interactions post invasion. University of Kentucky (Biological Sciences), November 2010".

2010, "Ode PJ. Plant chemistry effects on generalist and specialist host-parasitoid associations. University of Kentucky (Biological

Sciences), November 2010".

2010, "Ode PJ. Reciprocal interactions across three trophic levels: re-formed and novel associations, University of Arizona (Dept. of Entomology), Tucson, AZ, December 2010".

2009, "Ode PJ. Changes in multi-trophic interactions post invasion. W-2185 Annual Meeting, South Lake Tahoe, CA. October 2009.".

2009, "Ode PJ. Differential effects of glucosinolates on an herbivore and its parasitoid. 57th Annual Meeting of the Entomological Society of America, Indianapolis, IN".

2009, "Ode PJ. Multitrophic effects of wild cabbage glucosinolates on a generalist herbivore and its specialist parasitoid. 94th Ecological Society of America Annual Meeting, Albuquerque, NM".

2008, "Foster SP, Ode PJ, Charlet LD. A field trial testing the role of various diterpenoids in the adult host preference and larval performance of banded sunflower moth on several sunflower lines. International Society for Chemical Ecology".

2008, "Ode PJ. Tri-trophic interactions in native and introduced habitats: furanocoumarins, webworms, and *Copidosoma sosares*, XXIII International Congress of Entomology, Durban, South Africa. July 2008".

2007, "Ode PJ, Balgopal MM, Harvey J. Cabbage, cabbage loopers, and *Copidosoma*: multi-trophic effects of plant quality on a generalist herbivore and its specialist parasitoid. 55th Annual Meeting of the Entomological Society of America, San Diego, CA".

2007, "Ode PJ, Balgopal MM. Multitrophic effects of cabbage quality on the generalist herbivore, the cabbage looper, and its specialist parasitoid, *Copidosoma floridanum*. XXX Congreso

Nacional de Control Biológico y
International Organization for
Biological Control (IOBC) Symposium, 11
15 November 2007, Mérida, México".

2007, "Ode PJ. Multi-trophic effects of plant
chemistry on a specialist parasitoid and
its specialist parasitoid. Xth European
Workshop on Insect Parasitoids, 17-21
September 2007, Erice, Italy".

2007, "Ode PJ. Tri-trophic interactions in
native and
introduced habitats: parsnip
furanocoumarins and the parasitoid
Copidosoma sosares. University of
Arkansas (Entomology), 2007".

2007, "Ode PJ. Tri-trophic interactions in
native and introduced habitats: parsnip
furanocoumarins and the parasitoid
Copidosoma sosares. University of
Kentucky (Entomology), 2007".

2006, "de Boer JG, Ode PJ, Vet LEM, Whitfield
J, Heimpel GE. Multiple locus
complementary sex determination in the
parasitoid wasp *Cotesia vestalis*. XIV
International Entomophagous Insects
Workshop, 11-15 June 2006, Newark, DE".

2006, "de Boer JG, Ode PJ, Vet LEM, Whitfield
J, Heimpel GE. The role of sex
determination in the evolution of
gregarious development in parasitoid
wasps. International Conference on
Behavioural Ecology of Insect
Parasitoids, 25-28 September 2006,
Antibes Juan les Pins, France".

2006, "Lampert EC, Ode PJ. Battle of the sexes
in the parasitic wasp *Copidosoma*
sosares. 61st Annual Meeting of the
North Central Branch of the
Entomological Society of America,
Bloomington, IL".

2006, "Lampert EC, Ode PJ. Battle of the sexes
in the parasitoid *Copidosoma sosares*.
XIV International Entomophagous Insects
Workshop, 11-15 June 2006, Newark, DE".

2006, "Lampert EC, Ode PJ. Is clutch-size

body-size a life history invariant?
54th Annual Meeting of the Entomological
Society of America, Indianapolis, IN".

2006, "Mueller A, Ode PJ. Economic threshold
of soybean aphid in North Dakota. 61st
Annual Meeting of the North Central
Branch of the Entomological Society of
America, Bloomington, IL".

2006, "Mueller A, Ode PJ. Tritrophic effects
between soybean aphid resistance in
Glycines max and ladybird beetles
Harmonia axyridis. 54th Annual Meeting
of the Entomological Society of America,
Indianapolis, IN".

2006, "Ode PJ. Parasitoid sex ratios and
biological control. European Science
Foundation - Behavioural Ecology of
Insect Parasitoids (ESF-BEPAR)
International Conference on Behavioral
Ecology of Insect Parasitoids, Antibes
Juan les Pins, France. 2006".

2006, "Ode PJ. Parsnips, webworms, and
Copidosoma sosares: reciprocal
interactions? North Dakota State
University (Biology), 2006".

2005, "Charlet LD, Ode PJ, Seiler GJ. Native
sunflower in the central and northern
Plains as sources for resistance and
natural enemies of insect pests of
cultivated sunflower: banded sunflower
moth and sunflower stem weevil. Proc.
27th Sunflower Research Workshop, Natl.
Sunflower Assoc., Fargo, ND, 12-13
January 2005".

2005, "Crompton DS, Ode PJ. Implications of
the *Rag1* soybean aphid resistance gene
upon biological control. Joint Annual
Meeting of the Entomological Societies
of Canada and Manitoba, Winnipeg, Manitoba".

2005, "Crompton DS, Ode PJ. Overwintering
ability of *Aphis glycines* (Hemiptera:
Aphididae) in the Red River Valley of
the North. 53rd Annual Meeting of the
Entomological Society of America, Ft.
Lauderdale, FL".

2005, "Lampert EC, Ode PJ, Zangerl AR, Berenbaum MR. Sex-specific effects of xanthotoxin on the parasitoid *Copidosoma sosares*. 53rd Annual Meeting of the Entomological Society of America, Ft. Lauderdale, FL".

2005, "Lampert EC, Ode PJ, Zangerl AR, McGovern JL, Berenbaum MR. Host plant effects on the polyembryonic parasitoid *Copidosoma sosares*. 60th Annual Meeting of the North Central Branch of the Entomological Society of America, West Lafayette, IN".

2005, "Lampert EC, Ode PJ. Examining direct and indirect tritrophic interactions: xanthotoxin and the polyembryonic parasitoid *Copidosoma sosares*. Joint Annual Meeting of the Entomological Societies of Canada and Manitoba, Winnipeg, Manitoba".

2005, "Ode PJ, Lampert EC, McGovern JL, Zangerl AR and Berenbaum MR. Host plant chemistry in native and introduced systems: effects of furanocoumarins on the parasitoid *Copidosoma sosares*. 53rd Annual Meeting of the Entomological Society of America, Ft. Lauderdale, FL".

2005, "Pexton JJ, Ode PJ. Parent-offspring conflict, information use and clutch size decisions in parasitoid wasps. 53rd Annual Meeting of the Entomological Society of America, Ft. Lauderdale, FL".

2004, "Charlet LD, Ode PJ. Sunflower stem weevil and its parasitoids in native sunflowers in the Central and Northern Plains. Annual Meeting of the Entomological Society of Canada".

2004, "Lampert EC, Ode PJ, Zangerl AR, McGovern JL, Berenbaum MR. Effects of xanthotoxin on sex ratio of the parasitoid *Copidosoma floridanum*. 52nd Annual Meeting of the Entomological Society of America, Salt Lake City, UT".

2004, "McGovern JL, Ode PJ, Zangerl AR and Berenbaum MR. Effects of parasitoid wasps on metabolism of host plant toxins

in parsnip. 52nd Annual Meeting of the Entomological Society of America, Salt Lake City, UT".

2004, "Ode PJ, Hardy ICW, Zangerl AR, Berenbaum MR. Tritrophic effects of host plant chemistry on the polyembryonic parasitoid *Copidosoma sosares*. 59th Annual Meeting of the North Central Branch of the Entomological Society of America, Kansas City, MO".

2004, "Ode PJ. Parsnip chemistry and *Copidosoma sosares*: reciprocal tritrophic interactions? Netherlands Institute of Ecology (NIOO), Heteren, The Netherlands."

2004, "Ode PJ. Variation in sex allocation decisions and parasitoid mass-rearing programs. 52nd Annual Meeting of the Entomology Society of America ("Legacy and Future of Biotechnology in Insect Rearing" symposium), Salt Lake City, UT, 2004."

2003, "Ode PJ, Hardy ICW, Zangerl AR, Berenbaum MR. Host plant, host plant chemistry and the polyembryonic parasitoid *Copidosoma sosares*: indirect effects in a tritrophic interaction. XIIIth International Entomophagous Insects Workshop, Tucson, AZ".

2003, "Ode PJ. Parsnip chemistry and *Copidosoma sosares*: reciprocal tritrophic interactions? University of Minnesota (Dept. of Entomology), St. Paul, MN".

2002, "Ode PJ, Hopper KR, Heimpel G. Complementary sex determination in *Aphidius colemani*. 50th Annual Meeting of the Entomological Society of America, Fort Lauderdale, FL".

2000, "Ode PJ. Resource abundance and sex allocation in the desert seed-harvester ant, *Messor pergandei*. University of Maryland (Dept. of Entomology), College Park, MD".

1999, "Ode PJ. Sex allocation and clutch size

decisions in the solitary parasitoid, *Comperiella bifasciata*. University of Delaware (Dept. of Entomology), Newark, DE".

1998, "Ode PJ. Sex allocation and the evolutionary transitions between solitary and gregarious parasitoid development. Texas A&M University (Dept. of Entomology), College Station, TX".

1997, "Ode PJ. Reproductive decisions in *Comperiella bifasciata* (Hym., Encyrtidae): understanding success and failure of control of citrus scales, University of Illinois Urbana Champaign (IL Nat. Hist. Survey), Urbana, IL".

1997, "Ode PJ. Sex allocation and clutch size decisions in the solitary parasitoid, *Comperiella bifasciata*, University of Arizona (Dept. of Entomology), Tucson, AZ".

1997, "Ode PJ. The evolution of gregarious development in a parasitic wasp, Center for Insect Science, Tempe, AZ".

1996, "Ode PJ. Female-biased sex allocation in an outbreeding parasitoid wasp, University of California Davis (Dept. of Entomology), Davis, CA".

1996, "Ode PJ. Seasonal patterns of parasitism in red scale, Sustainable Agriculture Conference Series, Orland, CA".

OTHER ACTIVITIES/ACCOMPLISHMENTS – PUBLICATIONS/SCHOLARLY RECORD

(January 11, 2016). Workshop, "Teaching effectiveness: tips on pursuing excellence in teaching and learning.," TILT, Ft. Collins, CO, United States.

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2016	Spring	BSPM495 - Independent Study	3	5
2016	Spring	ECOL698 - Research	18	51
2016	Spring	BSPM530 - Scientific Writing	1	0
2015	Fall	BSPM302 - Applied and General Entomology	2	148
2015	Fall	BSPM495 - Independent Study	3	3
2015	Fall	BSPM495 - Independent Study	3	1
2015	Fall	BSPM798 - Research	18	9
2015	Fall	ECOL698 - Research	18	48
2015	Spring	BSPM495 - Independent Study	3	2
2015	Spring	BSPM530 - Scientific Writing	1	5

2014	Fall	BSPM302 - Applied and General Entomology	2	133
2014	Fall	ECOL698 - Research	18	63
2014	Spring	BSPM530 - Scientific Writing	1	3
2013	Fall	BSPM302 - Applied and General Entomology	2	156
2013	Spring	ECOL698 - Research	18	53
2013	Spring	BSPM530 - Scientific Writing	1	8
2013	Spring	SOCR530 - Scientific Writing	1	7
2012	Fall	BSPM302 - Applied and General Entomology	2	173
2012	Fall	BSPM556 - Biological Control of Plant Pests	3	9
2012	Fall	BSPM798 - Research	18	10
2012	Fall	ECOL698 - Research	18	55
2012	Spring	ECOL698 - Research	18	58
2012	Spring	BSPM530 - Scientific Writing	1	6
2012	Spring	SOCR530 - Scientific Writing	1	9
2011	Fall	BSPM302 - Applied and General Entomology	2	174
2011	Fall	ECOL592 - Interdisciplinary Seminar in Ecology	3	12
2011	Fall	ECOL698 - Research	18	45
2011	Spring	ECOL698 - Research	18	39
2011	Spring	BSPM530 - Scientific Writing	1	6
2011	Spring	SOCR530 - Scientific Writing	1	5
2010	Fall	BSPM302 - Applied and General Entomology	2	153
2010	Fall	BSPM556 - Biological Control of Plant Pests	3	8
2010	Fall	BSPM798 - Research	18	12
2010	Fall	BSPM584 - Supervised College Teaching	3	1
2010	Spring	BSPM596 - Group Study	3	8
2010	Spring	BSPM596 - Group Study - Scientific Writing	3	7
2009	Fall	BSPM302 - Applied and General Entomology	2	118
2009	Spring	SOCR796 - Group Study	18	14
2008	Fall	BSPM495 - Independent Study	3	1

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2015	Spring	BSPM451/551 - Integrated Pest Management	2	Face to Face
2014	Fall	BSPM592 - Fundamentals of BSPM	1	Face to Face
2014	Spring	BSPM550 - Molecular Plant-Microbe & Insect Interactions	1	Face to Face
2013	Fall	BSPM592 - Fundamentals of BSPM	1	Face to Face
2013	Fall	BSPM451 - Integrated Pest Management	2	Face to Face

Evidence of Teaching Effectiveness (Annual Input)

Other Evidence

Fall 2013, BSPM 302--Applied and General Entomology
 evaluation scores not yet available!!!
 i'll e-mail typed student comments

COMMITTEES

Graduate Degree Program in Ecology Executive Committee, (January 2015 - Present).

Faculty Council Standing Committee on Scholastic Standards, (2009 - Present).

GDPE Small Grant Awards, (March 20, 2015).

Graduate Student Showcase, (February 25, 2015).

Graduate Degree Program in Ecology Executive Committee, (2011 - 2013).

Education Committee, (2013 - Present).

Executive Committee, (2012 - September 2015).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Ecological Society of America.

Entomological Society of America.

Sigma-Xi.

Society for the Study of Evolution.

Animal Behavior Society. (1990 - Present).

American Midland Naturalist.

American Naturalist.

Member, Animal Behavior Society.

Animal Behaviour.

Annals of Applied Biology.

Behavioral Ecology.

Behavioral Ecology.

Behavioral Ecology and Sociobiology.

Behavioral Ecology and Sociobiology.

Biological Control.

BMC Evolutionary Biology.

Bulletin of Entomological Research.

Crop Protection.

Crop Protection.

CSU AES Technical Report.

Ecological Entomology.

Ecological Entomology.

Member, Ecological Society of America.

Ecology.

Ecology.

Ecology Letters.

Member, Education Committee.

Entomologia Experimentalis et Applicata.

Entomologia Experimentalis et Applicata.

Committee Chair, Entomological Society of America.

Committee Chair, Entomological Society of America.

Committee Chair, Entomological Society of America.

Member, Entomological Society of America.

European Journal of Entomology.

European Journal of Entomology.

Evolution.

Evolution.

Evolutionary Ecology.

Evolutionary Ecology.

Member, Executive Committee.

Member, Faculty Council Standing Committee on Scholastic Standards.

Functional Ecology.

Genetica.

Genetica.

Member, Graduate Degree Program in Ecology Executive Committee.

Journal of Applied Entomology.

Journal of Chemical Ecology.

Journal of Economic Entomology.

Journal of Economic Entomology.

Journal of Economic Entomology.

Editor, Associate Editor, Journal of Economic Entomology.

Journal of Insect Behavior.

Journal of Insect Behavior.

Journal of Insect Physiology.

Journal of Plant Physiology.

Journal of the Bombay Natural History Society.

Molecular Ecology.

National Agency for the Evaluation of Universities and Research Institutes (ANVUR; Italy).

Member, NSF IOS Animal Behavior DDIG Panel, 27-29 February.

Reviewer, Ad Hoc Reviewer, NSF IOS Animal Behavior.

Member, NSF IOS Behavioral Systems DDIG Panel, 23-25 February.

Reviewer, Ad Hoc Reviewer, NSF IOS Organism-Environment Interactions.

Reviewer, Ad Hoc Reviewer, NSF IOS Organism-Environment Interactions.

Reviewer, Ad Hoc Reviewer, NSF Office of International Science and Engineering International Research Fellowship Program.

Oecologia.

Oecologia.

Oikos.

Oikos.

Oxford University Press.

Oxford University Press.

Phytoparasitica.

PLoS ONE.

Population Ecology.

Population Ecology.

Population Ecology.

Member, Sigma-Xi.

Member, Society for the Study of Evolution.

Member, Student Affairs.

The Journal of Experimental Biology.

Member, USDA CSREES CP Organismal and Population Biology Panel, 26-28 March.

Member, USDA CSREES CP Organismal and Population Biology Panel, 28 April-1 May.

Reviewer, Journal Article, Ecology. (April 15, 2015 - Present).

Reviewer, Journal Article, Basic & Applied Ecology. (2014 - Present).

Reviewer, Journal Article, BioEnergy Research. (2014 - Present).

Editor, Journal Editor, Environmental Entomology. (2014 - Present).

Editor, Journal Editor, Frontiers in Chemical Ecology. (2014 - Present).

Reviewer, Journal Article, Insect Conservation & Diversity. (2014 - Present).

Reviewer, Journal Article, Journal of Applied Ecology. (2014 - Present).

Reviewer, Journal Article, PLoS One. (2014 - Present).

Reviewer, Journal Article, BioControl. (2013 - Present).

Editor, Journal Editor, Biological Control. (January 2013 - Present).

Reviewer, Journal Article, Biological Reviews. (2013 - Present).

Reviewer, Journal Article, Entomologia Experimentalis et Applicata. (2013 - Present).

Reviewer, Journal Article, Environmental Entomology. (2013 - Present).

Reviewer, Journal Article, Functional Ecology. (2013 - Present).

Reviewer, Journal Article, Journal of Economic Entomology. (2013 - Present).

Reviewer, Journal Article, Oecologia. (2013 - Present).

Editor, Journal Editor, Journal of Insect Science. (2011 - Present).

Reviewer, Journal Article, Entomologia Experimentalis et Applicata. (February 25, 2016).

Reviewer, Journal Article, Environmental Entomology. (2015).

Reviewer, Journal Article, Oecologia. (September 26, 2015).

Reviewer, Journal Article, Insect Science. (September 4, 2015).

Reviewer, Journal Article, PLoS Biology. (June 19, 2015).

Reviewer, Journal Article, Biological Journal of the Linnean Society. (June 13, 2015).

Reviewer, Journal Article, Austral Ecology. (June 7, 2015).

Reviewer, Journal Article, Entomologia Experimentalis et Applicata. (May 12, 2015).

Reviewer, Journal Article, Ecology. (April 20, 2015).

Reviewer, Journal Article, Journal of Chemical Ecology. (April 19, 2015).

Editor, Associate Editor, Environmental Entomology. (2004 - 2014).

Reviewer, Journal Article, American Naturalist. (2013).

Reviewer, Journal Article, Annals of Applied Biology. (2013).

Reviewer, Journal Article, Behavioral Ecology and Sociobiology. (2013).

Reviewer, Journal Article, Behavioral Ecology. (2013).

Reviewer, Journal Article, Biological Control. (2013).

Reviewer, Journal Article, Ecological Entomology. (2013).

Reviewer, Journal Article, Journal of Animal Ecology. (2013).

Reviewer, Journal Article, New Phytologist. (2013).

Reviewer, Journal Article, Oikos. (2013).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

K-12 Outreach, Poudre School District.

K-12 Outreach, Poudre School District.
